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L1	1	((updat$4 install$4) and (reboot$4 same ((first and second) near4 cluster))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 10:08
L2	0	((updat$4 install$4) and (reboot$4 same ((first and second) near4 cluster))).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 10:08
L3	1	((updat$4 install$4) and (reboot$4 same ((first and second) near4 cluster))) and ((transfer$3 with control) same ((first second) adj2 cluster))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 10:11
L4	0	((updat$4 install$4) and (reboot$4 same ((successive rolling sequential$4 sequence order) near4 cluster))) and ((transfer$3 with control) same ((first second sequence) adj2 cluster))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 10:12
L5	1	((updat$4 install$4) and (reboot$4 same ((successive rolling sequential$4 sequence order first) near4 cluster))) and ((transfer$3 with control) same ((first second sequence) adj2 cluster))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 10:13
L6	0	(((first second) adj2 cluster) and ((primary backup) adj reboot)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 10:14
L7	1	(((first second) adj2 cluster) and ((primary backup) near4 (reboot drive))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 10:15
L8	0	(reboot$4 same cluster) and (RAID near controller) and (backup near drive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 10:38

EAST Search History

L9	3	(reboot$4 same RAID) and (RAID near controller) and (backup near drive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/15 10:38

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1 Recovery in the Calypso file system

Murthy Devarakonda, Bill Kish, Ajay Mohindra
August 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 3
Publisher: ACM Press

Full text available: pdf(318.88 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents the deign and implementation of the recovery scheme in Calypso. Calypso is a cluster-optimized, distributed file system for UNIX clusters. As in Sprite and AFS, Calypso servers are stateful and scale well to a large number of clients. The recovery scheme in Calypso is nondisruptive, meaning that open files remain open, client modified data are saved, and in-flight operations are properly handled across server recover. The scheme uses distributed state amount the client ...

Keywords: Calypso, cluster systems, distributed state, state reconstruction

2 Network attached storage architecture

Garth A. Gibson, Rodney Van Meter
November 2000 **Communications of the ACM**, Volume 43 Issue 11
Publisher: ACM Press

Full text available: pdf(224.67 KB) html(43.39 KB) Additional Information: full citation, references, citings, index terms

3 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Publisher: ACM Press

Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed

operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

4 Understanding fault-tolerant distributed systems

Flavin Cristian
February 1991 **Communications of the ACM**, Volume 34 Issue 2
Publisher: ACM Press

Full text available: pdf(6.17 MB) Additional Information: full citation, references, citings, index terms, review

5 Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona

Thomas Haigh
January 2006 **ACM Oral History interviews**
Publisher: ACM Press
Full text available: pdf(761.66 KB) Additional Information: full citation, abstract

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering in 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylvania. On graduation, he went to work for Do ...

6 PC Notes

Eugene Styer
July 1997 **ACM SIGICE Bulletin**, Volume 23 Issue 1
Publisher: ACM Press
Full text available: pdf(938.83 KB) Additional Information: full citation, abstract

Now in segment ten we look at mass storage: disks, tapes and CD-ROMs.

7 Highly available systems for database applications

Won Kim
March 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 1
Publisher: ACM Press

Full text available: pdf(2.43 MB) Additional Information: full citation, abstract, references, citings, index terms, review

As users entrust more and more of their applications to computer systems, the need for systems that are continuously operational (24 hours per day) has become even greater. This paper presents a survey and analysis of representative architectures and techniques that have been developed for constructing highly available systems for database applications. It then proposes a design of a distributed software subsystem that can serve as a unified framework for constructing database applica ...

8 Deployment experience: Design and deployment of industrial sensor networks: experiences from a semiconductor plant and the north sea

Lakshman Krishnamurthy, Robert Adler, Phil Buonadonna, Jasmeet Chhabra, Mick Flanigan, Nandakishore Kushalnagar, Lama Nachman, Mark Yarvis

November 2005 **Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05**
Publisher: ACM Press

Full text available: pdf(677.48 KB) Additional Information: full citation, abstract, references, citings, index terms

Sensing technology is a cornerstone for many industrial applications. Manufacturing plants and engineering facilities, such as shipboard engine rooms, require sensors to ensure product quality and efficient and safe operation. We focus on one representative application, preventative equipment maintenance, in which vibration signatures are gathered to predict equipment failure. Based on application requirements and site surveys, we develop a general architecture for this class of industrial appli ...

Keywords: embedded hardware design, industrial applications of sensor networks

9 Technology to enable learning: Strategic decisions on technology selections for facilitating a network/systems laboratory using real options & total cost of ownership theories

Kimfong Lei, Phillip T. Rawles
October 2003 **Proceedings of the 4th conference on Information technology curriculum CITC4 '03**
Publisher: ACM Press
Full text available: pdf(407.50 KB) Additional Information: full citation, abstract, references, index terms

This paper addresses the selection of technologies that provide each student group a dedicated environment on a non-dedicated host machine. The authors investigated different combinations of enabling technologies and approaches, such as virtual machine technology, storage technology, and host operating system. Performance tests were developed and executed to profile the performance of the technologies. The results of this work provide an evaluation of the studied technologies and a selection gui ...

Keywords: VMware, course development, curriculum, end-user computing, innovative lab strategies in IT, interesting applications in IT, networking, operating systems, systems software

10 RIMAC: a novel redundancy-based hierarchical cache architecture for energy efficient, high performance storage systems

Xiaoyu Yao, Jun Wang
April 2006 **ACM SIGOPS Operating Systems Review , Proceedings of the 2006 EuroSys conference EuroSys '06**, Volume 40 Issue 4
Publisher: ACM Press
Full text available: pdf(471.34 KB) Additional Information: full citation, abstract, references, index terms

Energy efficiency becomes increasingly important in today's high-performance storage systems. It can be challenging to save energy and improve performance at the same time in conventional (i.e. single-rotation-rate) disk-based storage systems. Most existing solutions compromise performance for energy conservation. In this paper, we propose a redundancy-based, two-level I/O cache architecture called RIMAC to address this problem. The idea of RIMAC is to enable data on the standby disk to be recov ...

Keywords: cache management, disk storage, power management

11 The HP AutoRAID hierarchical storage system

John Wilkes, Richard Golding, Carl Staelin, Tim Sullivan

February 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 1
Publisher: ACM Press

Full text available: pdf(1.82 MB) Additional Information: full citation, abstract, references, citings, index terms

Configuring redundant disk arrays is a black art. To configure an array properly, a system administrator must understand the details of both the array and the workload it will support. Incorrect understanding of either, or changes in the workload over time, can lead to poor performance. We present a solution to this problem: a two-level storage hierarchy implemented inside a single disk-array controller. In the upper level of this hierarchy, two copies of active data are stored to provide f ...

Keywords: RAID, disk array, storage hierarchy

12 File and storage systems: Recovering transient data: automated on-demand data reconstruction and offloading for supercomputers
Sudharshan Vazhkudai, Xiaosong Ma
January 2007 **ACM SIGOPS Operating Systems Review**, Volume 41 Issue 1
Publisher: ACM Press
Full text available: pdf(192.29 KB) Additional Information: full citation, abstract, references, index terms

It has become a national priority to build and use PetaFlop supercomputers. The dependability of such large systems has been recognized as a key issue that can impact their usability. Even with smaller, existing machines, failures are the norm rather than an exception. Research has shown that storage systems are the primary source of faults leading to supercomputer unavailability. In this paper, we envision two mechanisms, namely *on-demand data reconstruction* and *eager data offloading*< ...

Keywords: *data reconstruction, file system recovery, supercomputer avalability*

13 The Starfire SMP interconnect
Alan Charlesworth, Nicholas Aneshansley, Mark Haakmeester, Dan Drogichen, Gary Gilbert, Ricki Williams, Andrew Phelps
November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '97**
Publisher: ACM Press
Full text available: pdf(273.52 KB) Additional Information: full citation, abstract, references, citings

The Starfire interconnect extends the envelope of Unix symmetric multiprocessor (SMP) systems in several dimensions. **Interconnect:** an active centerplane with four address routers and a 16x16 data crossbar provides 64 UltraSPARC processors with uniform memory access at a bandwidth of 10,667 MBps. **Flexibility:** Starfire can be dynamically reconfigured into multiple hardware-protected operating system domains. **Robustness:** Failing boards can be hot swapped without interrupting sy ...

Keywords: SMP, UMA, bandwidth, domains, interconnect, latency, partitions

14 The HP AutoRAID hierarchical storage system
J. Wilkes, R. Golding, C. Staelin, T. Sullivan
December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5
Publisher: ACM Press
Full text available: pdf(1.60 MB) Additional Information: full citation, references, citings, index terms

15 Frangipani: a scalable distributed file system

Chandramohan A. Thekkath, Timothy Mann, Edward K. Lee

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5

Publisher: ACM Press

Full text available: pdf(2.20 MB) Additional Information: full citation, references, citings, index terms

16 Features: Storage Systems: Not Just a Bunch of Disks Anymore

June 2003 **Queue**, Volume 1 Issue 4

Publisher: ACM Press

Full text available: pdf(1.29 MB) htm(31.84 KB) Additional Information: full citation, index terms

17 Testbed directions and experience: Experience with an evolving overlay network testbed

David G. Andersen, Hari Balakrishnan, M. Frans Kaashoek, Robert Morris

July 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3

Publisher: ACM Press

Full text available: pdf(115.26 KB) Additional Information: full citation, abstract, references, citings

The MIT RON testbed consists of 36 Internet-connected nodes at 31 different sities. It has been in operation for two years. This paper presents an overview of the testbed, summarizes some of the research for which it has proved useful, and presents the lessons we learned during its development. The testbed has been useful both for our own research and for that of external researchers becuase of its heterogeneous, diverse network connections; its homogenous hardware and software platform; its inc ...

18 The UNIX time-sharing system

Dennis M. Ritchie, Ken Thompson

July 1974 **Communications of the ACM**, Volume 17 Issue 7

Publisher: ACM Press

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings, index terms

UNIX is a general-purpose, multi-user, interactive operating system for the Digital Equipment Corporation PDP-11/40 and 11/45 computers. It offers a number of features seldom found even in larger operating systems, including: (1) a hierarchical file system incorporating demountable volumes; (2) compatible file, device, and inter-process I/O; (3) the ability to initiate asynchronous processes; (4) system command language selectable on a per-user basis; and (5) over 100 subsystems including a ...

Keywords: PDP-11, command language, file system, operating system, time-sharing

19 A comparison of high-availability media recovery techniques

George Copeland, Tom Keller

June 1989 **ACM SIGMOD Record , Proceedings of the 1989 ACM SIGMOD international conference on Management of data SIGMOD '89**, Volume 18 Issue 2

Publisher: ACM Press

Full text available: pdf(1.32 MB) Additional Information: full citation, abstract, references, citings, index terms

We compare two high-availability techniques for recovery from media failures in database systems. Both techniques achieve high availability by having two copies of all data and indexes, so that recovery is immediate. "Mirrored declustering" spreads two copies of each relation across two identical sets of disks. "Interleaved declustering" spreads two copies of each relation across one set of disks while keeping both copies of each tuple on separate disks. Both ...

20 Scalable and fault-tolerant support for variable bit-rate data in the exedra streaming server

Stergios V. Anastasiadis, Kenneth C. Sevcik, Michael Stumm
November 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 4
Publisher: ACM Press
Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, index terms

We describe the design and implementation of the Exedra continuous media server, and experimentally evaluate alternative resource management policies using a prototype system that we built. Exedra has been designed to provide scalable and efficient support for variable bit-rate media streams whose compression efficiency leads to reduced storage space and bandwidth requirements in comparison to constant bit-rate streams of equivalent quality. We examine alternative disk striping policies, and qua ...

Keywords: Content distribution, multimedia compression

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